

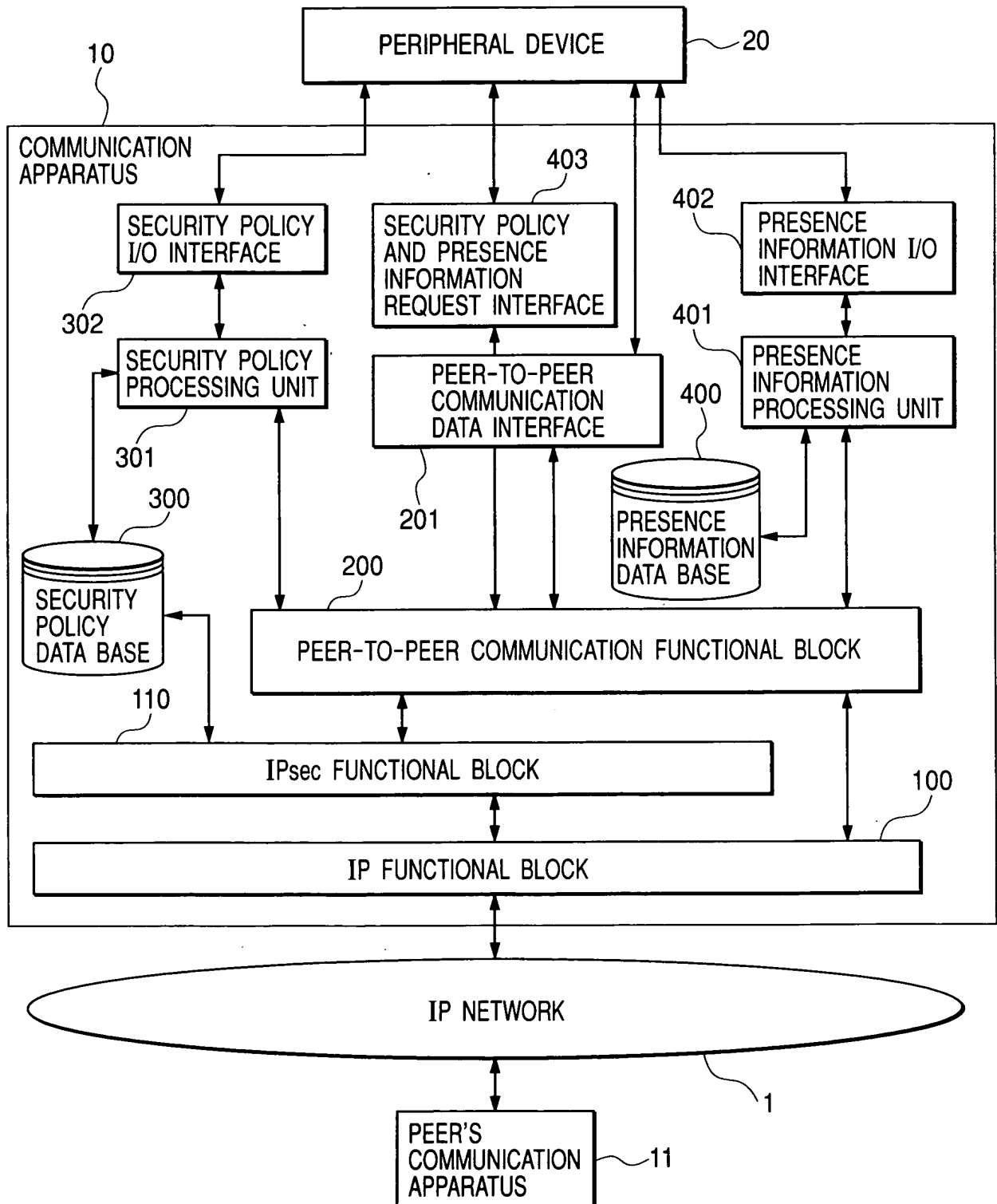
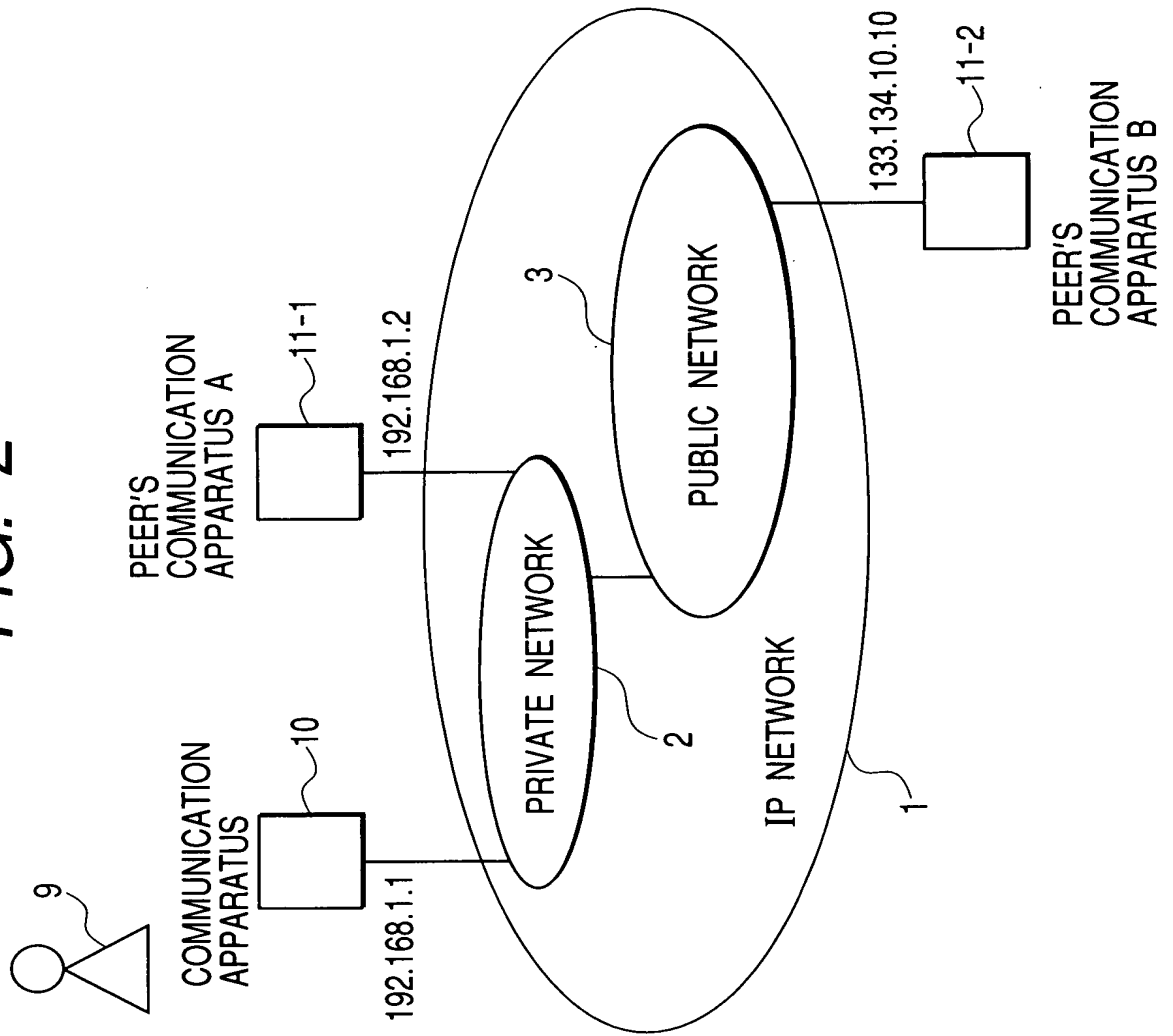
**FIG. 1**

FIG. 2



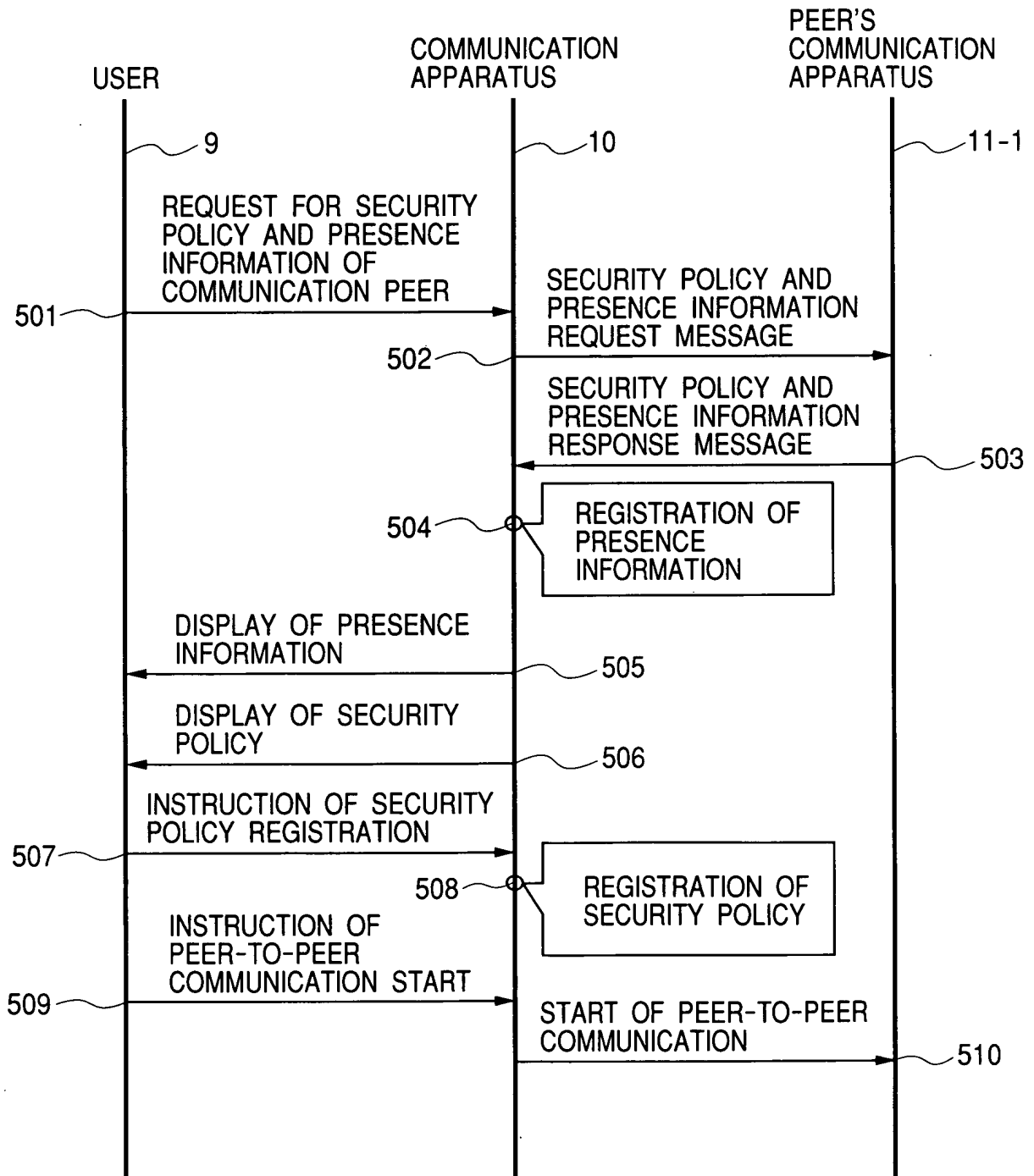
**FIG. 3**

FIG. 4

POLICY REQUEST

410

411

COMMUNICATION PEER:

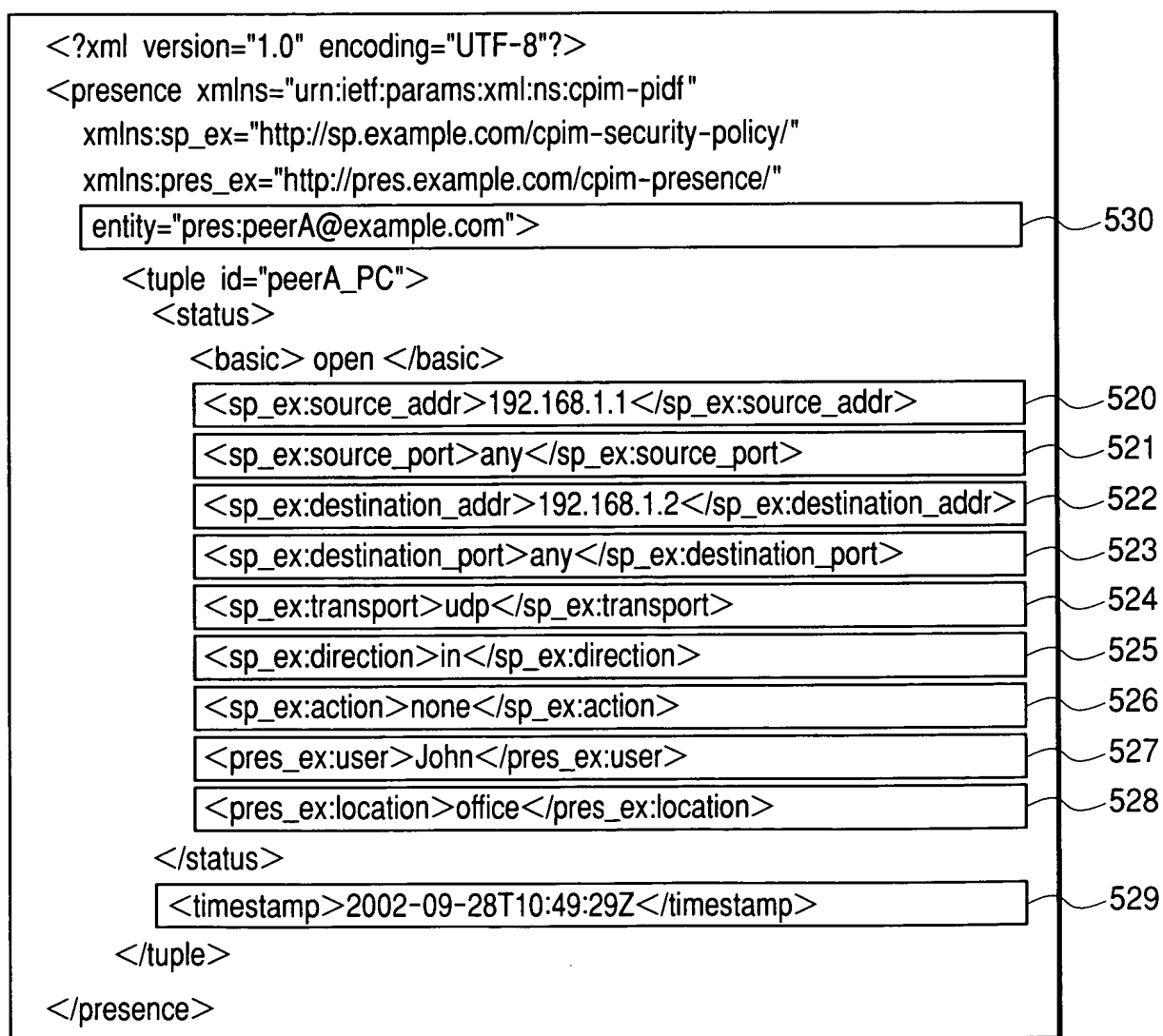
192.168.1.2

412 ☒ SECURITY POLICY

413 ☒ PRESENCE INFORMATION

OK 414

CANCEL 415

**FIG. 5**

**FIG. 6**

PRESENCE INFORMATION  
DATA BASE 400

ENTITY	IP ADDRESS	USER NAME	LOCATION	TIME
peerA@example.com	196.128.1.2	John	office	2002-09-28 10:49:29
...	...	...	...	...

**FIG. 7**

SECURITY POLICY  
DATA BASE 300

SOURCE		DESTINATION		TRANSPORT LAYER PROTOCOL	DIRECTION	ACTION	PROTOCOL	MODE	END POINT	LEVEL
IP ADDRESS	PORT NO.	IP ADDRESS	PORT NO.							
192.168.1.1	any	192.168.1.2	any	udp	out	none	—	—	—	—
...	...	...	...	...	...	...	...	...	...	...

300-1

**FIG. 8**

800

POLICY INFORMATION

SECURITY POLICY

SOURCE ADDRESS: 192.168.1.1 PORT:  ☒ any

DESTINATION ADDRESS: 192.168.1.2 PORT:  ☒ any

TRANSPORT LAYER: ☐ tcp ☒ udp ☐ any

DIRECTION: ☐ in ☒ out

ACTION: ☐ discard ☒ none ☐ ipsec

PROTOCOL: ☐ ah ☐ esp ☐ ipcomp

MODE: ☐ transport ☐ tunnel

END POINT:

LEVEL: ☐ default ☐ use ☐ require

REGISTER CANCEL

810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836

FIG. 9

900

×

PRESENCE INFORMATION

PRESENCE INFORMATION

910 entity: peerA@example.com 917

911 IP ADDRESS: 192.168.1.2 918

912 USER NAME: John 919

913 LOCATION: office 920

914 TIME: 2002-09-28 10:49:29 921

915 OK 916 CANCEL



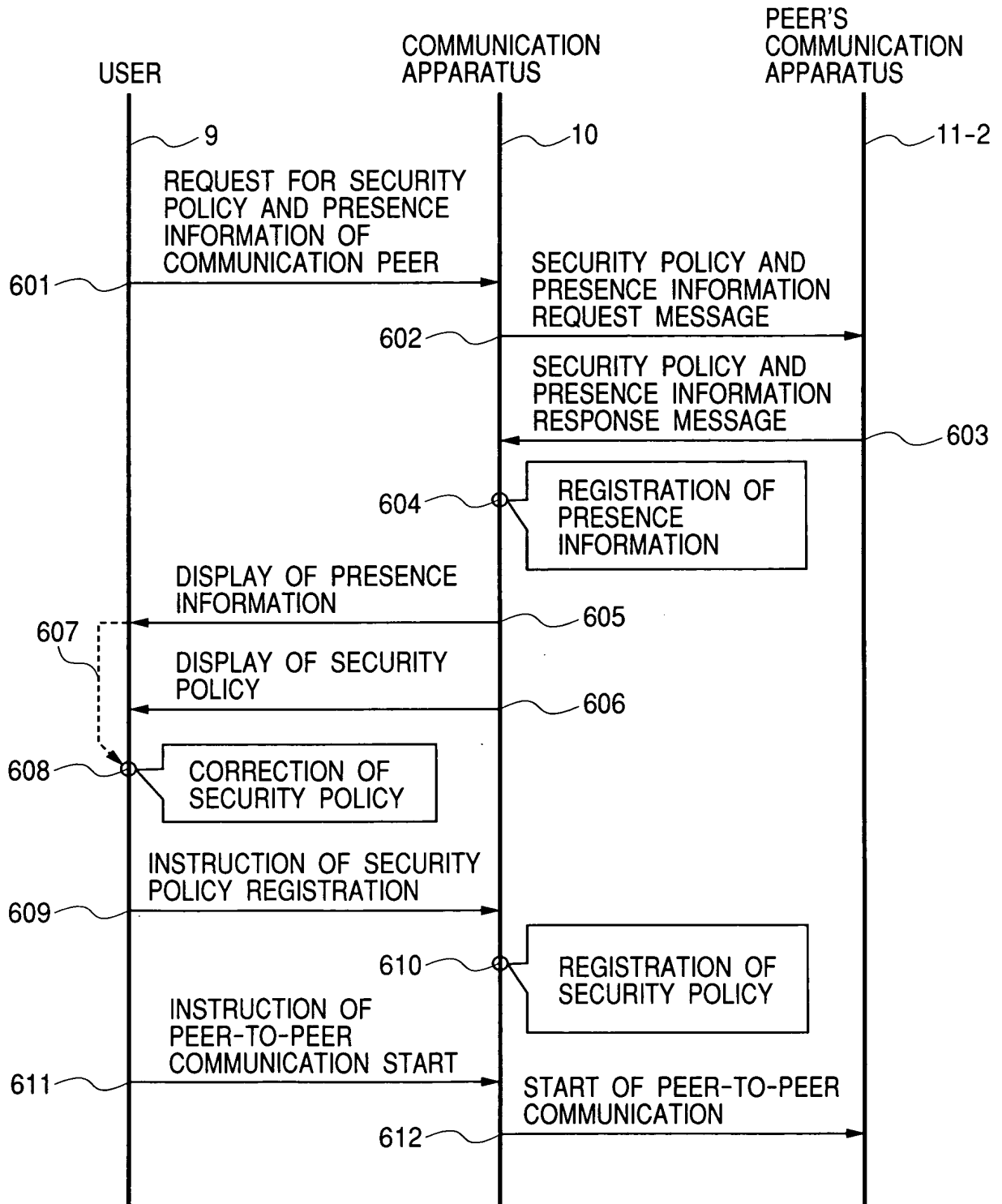
**FIG. 10**

FIG. 11

1100

×

PRESENCE INFORMATION

PRESENCE INFORMATION

entity: peerB@example.com

IP ADDRESS: 133.134.10.10

USER NAME: Bob

930 LOCATION: external

TIME: 2002-09-28 16:15:46

OK

CANCEL

**FIG. 12**

1200

POLICY INFORMATION ✕

SECURITY POLICY

SOURCE ADDRESS:  PORT: ☐  ☒ any

DESTINATION ADDRESS:  PORT: ☐  ☒ any

TRANSPORT LAYER: ☐ tcp ☒ udp ☐ any

DIRECTION: ☐ in ☒ out

ACTION: ☐ discard

850 ☒ none

☐ ipsec

PROTOCOL: ☐ ah ☐ esp ☐ ipcomp

MODE: ☐ transport ☐ tunnel

END POINT:

LEVEL: ☐ default ☐ use ☐ require

**FIG. 13**

1300

POLICY INFORMATION

SECURITY POLICY

SOURCE ADDRESS: 192.168.1.1 PORT: ☐  ☒ any

DESTINATION ADDRESS: 133.134.10.10 PORT: ☐  ☒ any

TRANSPORT LAYER: ☐ tcp ☒ udp ☐ any

DIRECTION: ☐ in ☒ out

ACTION: ☐ discard  
☐ none

860 ☒ ipsec

861 862 863  
PROTOCOL: ☒ ah ☒ esp ☐ ipcomp

864 MODE: ☐ transport ☐ tunnel

END POINT:

LEVEL: ☐ default ☐ use ☒ require

865

866 REGISTER CANCEL